INCORPORATED

TERMS: NET THIRTY (30) DAYS

CIRCUIT MODULE OPERATION "CMO"

MUNCY, PENNA. 17756 PHONE: (AREA 717) 546-3191 DUNS: 00-305-0846

INVOICE/SHIP NO.
INVOICE DATE
CON. NO. 8-4087
DATE 11/30/78
PAGE 1 OF 1
REVISION NO.

PARASE REMINITION
PROPERTY SERVICE
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1. #2609-9479 -- 20 PCS (CONNECTOR)
 2. #0405-0822 -- 20 PCS (SCREWS)
 3. #0405-0832 -- 60 PCS
 4. #0405-0812 -- 60 "
                              **
 5. #0405-0802 -- 60 "
 6. #0405-0842 -- 80 "
 7. #98-260946 -- 20 FT. (RED-10', BLACK-10')
 8. #2609-0230 -- 10 PCS. (FISH PAPER)
 9. #0405-0852 -- 10 " (PUSHNUTS)
10. #75-260928 -- 20 " (FERRITE BEADS)
11. #2609-9489 -- 1 PC (ADHESIVE FOOT)
12. #76-260915 -- 10 PCS. (CRYSTAL)
                            (SWITCH)
13. #91-260917 -- 10
                             (CONNECTOR)
14. #89-260941 -- 10
                       11
15. #89-260939 -- 10
                       11
                            (ANTENNA SW. ASSY.)
16. #2609-9609 -- 10
                      11
                            (LOGIC BD. ASSY.)
17. #2609-9519X - 10
18. #03-260931X - 10 "
                            (TRANSFORMER WITH CONNECTOR)
19. #2609-9539X - 10 " (POWER SUPPLY BD. ASSY.)
20. #64RC1003M0053 10 pcs (CAPS)
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Mattel Power Supply Units
Units tested at 120VRMS 25°C.

Loads were as follows:

5V 1.25A -3V 30ma 12V 300ma 16V 12ma

The above values were recommended by GI 12-20-78

UNIT #	12V	16V	5V	-3V
#1	12.04	13.7	4.90	-2.70
#2 ~	11.9	13.8	4.90	-2.7
#3	12.0	14.0	4.90	-2.7
#4	12.0	13.9	4.90	-2.75
#5	12.0	13.9	4.90	-2.8
#6	12.0	13.9	5.04	-2.8
#7	12.0	14.0	4.88	-2.80
#8	11.98	13.8	4.96	-2.80
#9	12.04	13.9	4.78	-2.76
#10	12.00	13.8	4.92	-2.78

The 5V and 12V supply units will not regulate with 115 volts or less.

CC. J. Cehret

J. Robertson

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with Shipnet.



Electronic Components Group Circuit Module Operation P.O. Box 360 Muncy, Penna. 17756 717 546-3191

December 6, 1978

Mattel Electronics A Division of Mattel Inc. 5150 Rosecrans Ave. Hawthorne, California 90205

Attention: Mr. Howard L. Cohen, Director of Purchasing

Dear Howard,

Attached for your information and file is a listing of material and a copy of the shipping paper for ten (10) sets of material sent to General Instrument for your prototype requirements.

Should you have any questions, please contact me.

Very truly yours,

GTE SYLVANIA INCORPORATED

JOHN R. ROBERTSON Sales Engineer

JRR/jce Attachment

	_	THE REAL PROPERTY.			PORATED	PHONE: (A)	PENNA: 17 BEA 717) 54 - 00-30"-084	6-, 191		INV	OICE/SHIP NO	
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## KIT PACKING LIST

Part Number	Description	Quantity
2600 0600	Antenna Switch Assembly	10
2609-9609	Screw 5-20 x 7/16"	0
0405-0842	Screw 5-20 x 7/16" (Sub for Above)	100
44 00100000000		240
64-RB1003M0053	Ceramic Capacitor, 0.luf, 20%, 15V	10
2609-0230	Insulator Fish Paper	
2609-9489	Adhesive Foot	40
0405-0802	Screw 8-18 x 1"	60
0405-0812	Screw 8-18 x 1/2"	60
0405-0822	Screw 6-19 x 1/2"	0
	Screw 6-9 x 1/2" (Sub for Above)	20
0405-0832	Screw 8-18 x 3/4"	60
0405-0812	Pushnut Fastener	10
89-260933	Phonojack for RG59	18 (2 Short)
98-260934	75 Ohm RG59 Cable	150 Ft.
2609-9549	Transformer Assembly	10
89-260935	Connector, 5 Pin	20
2609-9479	Connector to Console, 10 Pin	20
75-260928	Ferrite Bead	260
73-260900	7805C 5V Regulator +5%	10
73-260901	7812C 12V Regulator <u>+</u> 5%	10
1N4001	Rectifier, 1 Amp, 50V	90
1N746A	Zener, 3.3V, 5%, 500mw	10
67-AC1007X6031	Aluminum Capacitor, 1,000uf, 35V	10
67-AB1108X5032	Aluminum Capacitor, 11,000uf, 16V	0 (10 Short)
67-AC1006X6033	Aluminum Capacitor, 100uf, 25V	10

Part Number	Description	Quantity
85-CC2W2200J	Resistor, C.F., 220 Ohm, 5%, 1/2W	10
91-260903	Power Switch, 3PDT	10
98-260906	Wire, 22 AWG	90 Ft.
89-260902	Connector, 5 Pin	20
36-260907	Heatsink	10
623343	Rivet	30
85-CC1W1001J	Resistor, C.F., 1K Ohm, 5%, 1/4W	30
85-CC1W47ROJ	Resistor, C.F., 47 Ohm, 5%, 1/4W	10
85-CC1W3000J	Resistor, C.F., 300 Ohm, 5%, 1/4W	10
85-CC1W3301J	Resistor, C.F., 3.3K Ohm, 5%, 1/4W	20
85-CC1W5600J	Resistor, C.F., 560 Ohm, 5%, 1/4W	10
85-CC1W1002J	Resistor, C.F., 10K Ohm, 5%, 1/4W	
85-CC1W1000J	Resistor, C.F., 100 Ohm, 5%, 1/4W	10
85-CC1W1OROJ	Resistor, C.F., 10 Ohm, 5%, 1/4W	30
85-CC1W4700J	Resistor, C.F., 470 Ohm, 5%, 1/4W	10
85-CC1W2201J	Resistor, C.F., 2.2K, 5%, 1/4W	10
85-CC1Y2003J	Resistor, C.F., 200K, 5%, 1/4W	10
85-CC1W1500J	Resistor, C.F., 150 Ohm, 5%, 1/4W	10
85-CC1W2401J	Resistor, C.F., 2.4K ohm, 5%, 1/4W	40
85-CC1W1301J	Resistor, C.F., 1.3K Ohm, 5%, 1/4W	20
86-260908	Potentiometer, 20K	20
86-260909	Potentiometer, 25K	20
<b>64-</b> RB20R0J0054	Ceramic Capacitor, 20pf, 5%, 15V	10
<b>64-</b> RB1000J0055	Ceramic Capacitor, 100pf, 5%, 15V	10
<b>67-</b> TB1004X6034	Aluminum Capacitor, luf, 15V	20

Part Number	Description	Quantity
67-RC1005M6035	Tantalum Capacitor, 10uf, 35V	30
64-RB1002M0056	Ceramic Capacitor, 0.01uf, 15V	10
2N3906	PNP Small Signal Transistor	20
2N3904	NPN Small Signal Transistor	10
74-260911	256x8 RAM, EMM	30
74-260912	Hex Inverter, 7406	10
74-260913	Quad and Gate, 74LS08	10
74-260914	Quad Buffer, 74LS126	20
76-260915	Crystal	10
70-260910	Trimmer Capacitor, 5.1 to 50pf	10
20-260916	Modulator	10
91-260917	Switch SPST	10
91-260918	Switch SPDT	10
89-260918	I.C. Socket, 40 Pin Dip	60
89-260920	I.C. Socket, 18 Pin Dip	10
89-260921	I.C. Socket, 24 Pin Dip	30
89-260922	I.C. Socket, 28 Pin Dip	10
98-260927	Wire, 22 AWG	15 Ft.



Electronic Components Group Circuit Module Operation P.O. Box 360 Muncy, Penna. 17756 717 546-3191

December 6, 1978

Mattel Electronics Division
Mattel Incorporated
5150 Rosecrans Avenue
Hawthorne, California 90250

Attention: Mr. Howard L. Cohen, Director of Purchasing

Subject: GTE Sylvania/Mattel Purchase Agreement Component List

Dear Howard,

In accordance with paragraph 11A <u>Component Qualification and Documentation</u> of the subject Agreement, attached please find a list of components for the Video Game Products including, where possible, recommended sources for procurement of such components. The base line for this component list is per Exhibit C of the subject Agreement.

Revision C of General Instruments parts list #39-147 dated 11/14/78 as per the direction of your letter dated November 28, 1978 is being evaluated for incorporation into the component list in accordance with paragraph 13 Design Changes.

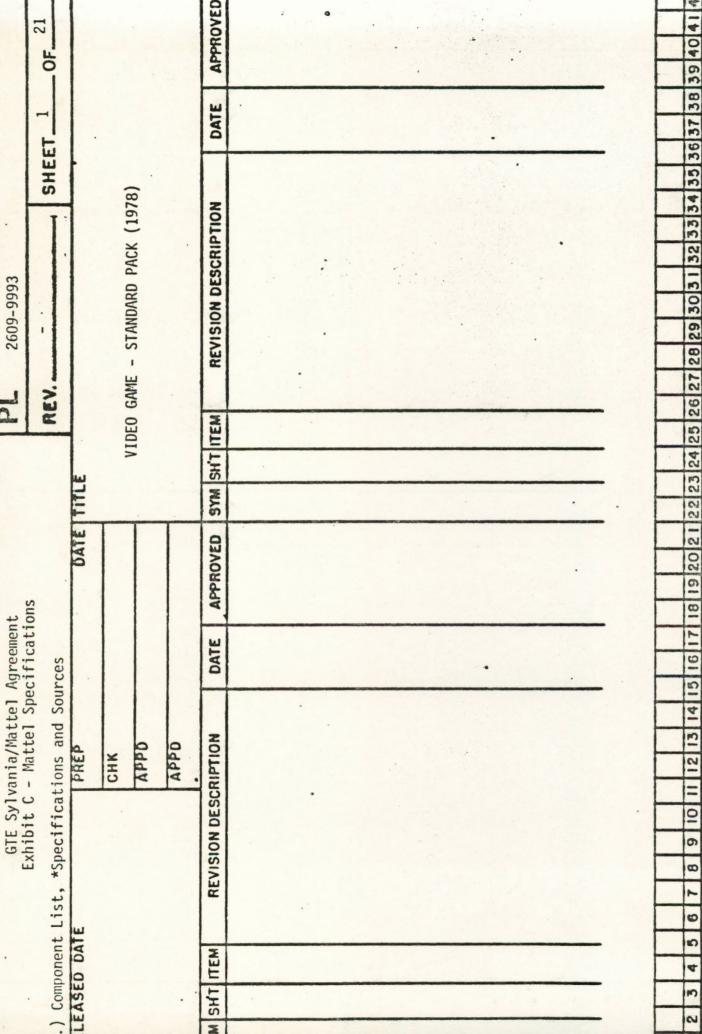
Please contact me if you have any questions concerning the enclosed.

Very truly yours,

GTE SYLVANIA INCORPORATED

JOHN R. ROBERTSON Sales Engineer

JRR/jce Attachment



2609-9993

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Page C1 of 27 Pages

<sup>\*</sup> Detailed drawings and specifications on these components remain to be completed by Mattel and will be incorporated into this Exhibit in accordance with paragraph 13, Design Changes. RECORD OF REVISION STATUS OF EACH SHEET

	GTE	E Sylvania/Mattel Agreement	ement	rage CZ of Z/ Pages	2	9-9993		
	Exhib	Exhibit C - Mattel Specification	catio	· uo	TITLE VIDEO	GAME	STANDARD FACE (1978)	
-	Component List, *	Specifications and Sou	Sources	s, (continued)	REV.		SHEET 1 OF.	1
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1_1	1 Ea. 20	2609-0930		Master Carton				
	A/E A/R O	0405-0790		Tape - 3" Reinforced	rced			
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		Video Game			2609-9991	Ea. 2	1	8
		Football Cassette	U		2610-9991	Ea. 2		7
		Instruction Sheet			2609-0920	Ea. 2	-     	9
	11½" x 24")	Polyethylene Sleeve (			0001-9210	Ea. 0		5
		Tape - 1" Clear			0405-0290	A/R	A/F	, d
	ead	End Cap - Styrofoam Bead			2609-0810	Ea. 2	2	6
		Tape - 2" Clear			0405-9950	A/R	A/B	2
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-	1	Ea.	2609-2109		Console	le Base			
2		Ea.	2609-2149		Tray				
3	9	Ea.	0405-0802	#	Screw,	, 8-18x1"		Shakeproof Hi-Lo	
4	9	Ea.	0405-0812		Screw,	', 8-18x½"		Shakeproof Hi-Lo	
2		Ea.	2609-9549		Irans	ansformer Assembly		Midwest #663P2A	
9		Ea.	1	#	Conne	Connector, 5 Pin - For	Transformer	128-5	
7	2	Ea.	0405-0822		Screw,	', 6-19x½"		Molex KK .155" Series Shakeproof Hi-Lo	
ω		Ea.			Shield,	d, R. F. Upper			
6		Ea.	1		Shield,	d, R. F. Lower			
0		Ea.	2609-0230		Insul	sulator, 3" x 4" Fis	Fish Paper	Wilmington Fiber, Penn Fiber,	
1	4	Ea.	2609-9489		Adhesive	Foot, .14"	thk. x 5" Dia.	3M #SJ-5012	
2	11	Ea.	2609-9119			nsole Cover - Labelled	ed		
m	9	Ea.	0405-0832		Screw,	, 8-18x3/4"		Shakeproof Hi-Lo	
4		Ea.	2609-2129		Button	n - Reset			
÷.	R*REFERENCE	m	*Detailed drawings	and specif	pecifica	ns on	2609-9993	1993	
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10		Ea.	2609-4269			Spring - for Reset Button	B 038	e, Dayon Mfg.Co.,	
		Ea.	0405-0852			Pushnut Fastner	Superb Spring Works Palnut #PD 156007	vorks 007	
		Ea.	2609-2139	++		Glamour Cap			
8		Ea.	1	+		Washer, Push-on			
		Ea.	2609-9599	44		Antenna Cable Assembly	Astec. Devron Co	.00	
		Ea.	2609-9609	+1		Antenna Switch Assembly	Astec, T & W Co,	o, Ltd. #LS-201	
		Ea.	2611-0340	-		Label - Serial Number			
21	2	Ea.	2609-9059	+		Hand Controller Assembly			
m		Ea.	2609-9539			Power Supply Board Assembly Per G.I. Parts List #39-147	Rev. B		
		Ea.	2609-9519			Logic Board Assembly per G.I. List #39-147 Rev. B	Parts		
- ;;,	R. REFERENCE	ICE	*Detailed drawings	and se co	spe imp]	fications c	2609-9993		
	8. BUY C. CONSIGNED	0	will be incorporated ance with paragraph 1	into this 13. Design	Opsidn	s Exhibit in accord-	7	icer 7 or	21

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1 Ea. 2609-0320   Label - Plain     1 Ea. 2609-0320   Label - Plain     1 Ea. 2609-0320   Label - Controls     1 Ea. 2609-0330   Label - Controls     1 Ea. 2609-0119   Console Cover - Painted     1 Ea. 2609-0119   Console Cover - Painted     2 Ea. 2609-0119   Console Cover - Painted     3 Ea. 2609-0119   Console Cover - Painted     4 Ea. 2609-0119   Console Cover - Painted     5 Ea. 2609-0119   Console Cover - Painted     6 Ea. 2609-0119   Console Cover - Painted     8 Ea. 2609-0119   Console Cover - Painted     9 Ea. 2609-0119   Console Cover - Painted     9 Ea. 2609-0119   Console Cover - Painted     1 Ea. 2609-0119   Console Cover - Painted     2 Ea. 2609-0119   Console Cover - Painted     3 Ea. 2609-0119   Console Cover - Painted     4 Ea. 2609-0119   Console Cover - Painted     5 Ea. 2609-0119   Console Cover - Painted     6 Ea. 2609-0119   Console Cover - Painted     7 Ea. 2609-0119   Console Cover - Painted     8 Ea. 2609-0119   Console Cover - Painted     9 Ea. 2609-0119   Console Cover - Painted     1 Ea. 2609-0119   Console Cover - Painted     2 Ea. 2609-0119   Console Cover - Painted     2 Ea. 2609-0119   Console Cover - Painted     2 Ea. 26		onent			Specifications	ourc	es,		REV.		1	1
1 Ea. 2609-0320   Label - Plain     1 Ea. 2609-0330   Label - Controls     2 Ea. 2609-0419   Console Cover - Painted     2 Ea. 2609-6119   Console Cover - Painted     3 Ea. 2609-6119   Console Cover - Painted     4 Ea. 2609-6119   Console Cover - Painted     5 Ea. 2609-6119   Console Cover - Painted     6 Ea. 2609-6119   Ea. 2609-6199     7 Ea. 2609-6119   Ea. 2609-6199     8 Ea. 2609-6119   Ea. 2609-6199     8 Ea. 2609-6119   Ea. 2609-6199     9 Ea. 2609-6119   Ea. 2609-6199     1 Ea. 2609-6119   Ea. 2609-6199     2 Ea. 2609-6119   Ea. 2609-6199     2 Ea. 2609-6119   Ea. 2609-6199     2 Ea. 2609-6119   Ea. 2609-6199     3 Ea. 2609-6119   Ea. 2609-6199     4 Ea. 2609-6119   Ea. 2609-6199     5 Ea. 2609-6119   Ea. 2609-6199     6 Ea. 2609-6119   Ea. 2609-6199     6 Ea. 2609-6119   Ea. 2609-6199     7 Ea. 2609-6119   Ea. 2609-6199     8 Ea. 2609-6119   Ea. 2609-6199     8 Ea. 2609-6119   Ea. 2609-6199     9 Ea. 2609-6119   Ea. 2609-6199     9 Ea. 2609-6119   Ea. 2609-6199     1 Ea. 2609-6119   Ea. 2609-6199     2 Ea. 2609-		HSVO	CN	117		REV	-	NOMENCLATURE OR DE	ESCRIPTION	SUGGES		0/0
1 Ea. 2609-0330 Label - Controls  1 Ea. 2609-6119 Console Cover - Painted  Console Cover - Paint			Ea	e e	2609-0320	+	4	1				
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Page C8 of 27 Pages

Component List, * Specifications and Sources, (continued)   REV.   SHEET		GT Exhi	GTE Sylvania/Mattel Agreement. Exhibit C - Mattel Specification	catio	t		TITLE	Console Cover	er - Painted	
1   Ea. 2609-2119   Console Cover   Paint   Console Cover	-	Component List,	Specifications and	urce		ıtinued)	REV.		SHEET 1 OF	-
A/R   A/R   Console Cover     1	2			ZEK	KEY		SCRIPTION	SUGGE	TED SOURC	0/0
1 Ea. 2609-2119 Console Cover  R. REFERENCE **Detailed drawings and specifications on these will be incorporated into this Each whatein and specifications on these will be incorporated into this Each of the specifications on these will be incorporated into this Each of the specifications on these will be incorporated into this Each of the specific changes.	17	-	1			Paint				
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	ect,									
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	J. Ramsey Reese. Dayon Mfg. Co. Ohio Wire Spring Co.		Compression Spring			0405-4279	Ea.	-		$\infty$
	Shakeproof Hi-Lo		Screw, 5-20 x 7/16"			0405-0842	Ea.	4		~
		ssembly	Housing - Upper Subassembly			2609-9069	Ea.	-		9
		ay	Disc - Control w/Inlay			2609-9089	Ea.	-		2
	8,00		Push Buttons			2609-2099	Ea.	2		4
	Chomerics		Circuit Matrix			2609-9589	Ea.	-		2
			Housing, Lower			2609-2059	Ea.	-		2
			Connectors							
		Assembly w/	Cable			2609-9579	Ea.	-		-
C/C	SUGGESTED SOURCE	DESCRIPTION	NOMENCLATURE OR DESCRIPTION	KEL	NEK	IDENTIFYING NO.	UNIT		OTY/DASH	EM
-	SHEET 1 OF	REV.	(continued)		Sources,	Specifications and	List, *	Component L		1
	Hand Controller Assembly	TITLE Hand		ton	emen	ule sylvania/Mattel Agreement Exhibit C - Mattel Specification	Exhi		•	
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						4			+		+	
	#11-220K	Ferronics		19" L							-	
	#5961001103	Fair-Rite	38" 00	Bead: 20" ID		-		Ea.	6		+	4
						11			-		H	
		Molex	0 Pin.	Connector - Console.10		+	2609-9479	Fa	+		-	m
	Assemblies Corp.	Circuit A	, 9 Pin	Connector - Controller,		11	2609-9469	Ea.	-		-	12
		Victor		Cable, 9 Wire, Coiled			2609-9569	Ea.	-			-
0/0	SUGGESTED SOURCE	SUGGE	SCRIPTION	NOMENCLATURE OR DESCRIPTION	KEA	REK	IDENTIFYING NO.	UNIT	чSн	OTY/DASH		M
-	SHEET 1 OF.		REV.	(continued)	25,	Sources	Specifications and	List, *	Component	Compo	.)	-
S	Assembly W/Connectors	oller Cable	TITLE Controller		ion	cati	GTE Sylvania/Mattel Agreement Exhibit C - Mattel Specification	GTE Exhibi				
Charle Const		9379	-6007 M	C3601 77 25 C5								

		Ð	GTE Sylvania/Mattel Agreement Exhibit C - Mattel Specification	cation	raye cit oi 27 rayes	AN 26	2609-9089 Disc - Control w/Inlay	
•	Component List,	List,	, * Specifications and So	Sources,	(continued)	REV.	SHEET	OF 1
W	OTY/DASH	UNIT	I IDENTIFYING NO.	YZK	NOMENCLATURE OR DE	DESCRIPTION	SUGGESTED SOURCE	0/0
-		Ea.	2609-2089		Disc - Control			
2		Ea.	2609-0310		Inlay			
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T		1		1				
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	1		GTExhi	GTE Sylvania/Mattel Agreement Exhibit C - Mattel Specification	cat		safip 17 in cro afp.	TITLE Housing	- Upper	Subassemblv	
<u> </u>	Component		ist, *	Specifications and	Sources,		(continued)	REV.		SHEET 1 OF	-
>	OTY/DASH		UNIT	IDENTIFYING NO.	BEK	KEA	NOMENCLATURE OR DESCRIPTION	SCRIPTION	SUGGES	TED SOURCE	C/C
			Ea.	2609-2069		-	Housing - Upper				
1			67	2609_2079	+		Framo				
1		-		5003-5003	+		ון מווות				
	+	+			+						
1	+	+			-						
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	GT Exhi	GIE Sylvania/Mattel Agreement Exhibit C - Mattel Specification	ment	Pa t on	Page C14 of 2/ Pages ANV		2609-9539 Power Supply Board Assembly	
1.)	Component Lis	Specifications and Sour	Sources		(continued)	11	SHEET 1 OF.	2
TEM	OTY/DASH UNIT	IDENTIFYING NO.	BEK	KEY	NOMENCLATURE OR DESCRIPTION	NO	SUGGESTED SOURCE	0/0
1	1 Ea.				IC1 - 7805C Positive Voltage Regulator, 5V ±5%, TO-220 Package	kage	Signetics, TI, National, Fairchild, Motorola, NEC	
2	1 Ea.				IC2 - 7812C Positive Voltage Regulator, 12V <sup>±</sup> 5%, TO-220 Package	ckage	Signetics, TI, National, Fairchild, Motorola, NEC	
3	8 Ea.				fier, 1	Amp. 50V	GI, ITT, Fairchild	
4	1 Ea.				09 - IN746A, Zener, 3.3V, 5%, 5	500 mW	NPC, Motorola, Siemens, Fairchild, NEC, ITT	
2	1 Ea.			1	C1 - Aluminum Cap., 10,000 uF, -10 +100%, 16V, Axial		United Chemi-Con #16TAL10000, Nichicon, Elna, Illinois Cap.	
9	1 Ea.			+	C2 - Aluminum Cap., 100 uF, -10 +100%, 5V, Axial		United Chemi-Con #25TAL100, Elna, Nichicon, Illinois Cap.	
7	3 Ea.				C4,5,6 - Ceramic Cap., 0.1 uF, 15V, Z5U, Radial	20%	Centralab Type 2DDU, Erie Transcap, Dilectron Jype RT, Murata, KCK	
8	1 Ea.				RI - Carbon Film, 220 Ohm, 5%,	M <sup>2</sup> T	Airco, R-Ohm, ICC	
5	1 Ea.				C3 - Aluminum Cap., 1000 uF, -10 +100%, 25V, Axial		United Chemi-Con #35TAL1000, Elna, Nichicon, Illinois Cap.	
10	1 Ea.				Power Switch, 3PST Slide		UID #SW432-SD-LO-S-B1-JK	
A M,	R. REFERENCE	*Detailed drawings components remain to will be incorporated	and se cor	spec mple this	be completed by Mattel and into this Exhibit in accord-	2609-9993	993	
	C. CONSIGNED	ance with paragraph	De	13. Design	Changes.	1	cueer 14 or	21

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	Exh	Exhibit C - Mattel Specification	icatic		TITLE	Power Supply Board Assembly	
-	Component List, *	Specifications and	Sources,	, (continued)	REV.	SHEET 2 OF	2 =
Z	OTY/DASH UNIT	IDENTIFYING NO.	REK	NOMENCLATURE OR DESCRIPTION	ESCRIPTION	CE	C/C
1-1	9 Ft.		-	Wire, 22 AWG, 7/30	Stranded	American Electric Cable,	
						e Thermat	
2	1 Ea.			Connector, P/C Header,	5 pin, to	Amp #640383-5,	1
T				er .			
Im	1 Ea.			Connector, P/C Header,	6 Pin to	AMP #640383-6	
			1	Logic Board		Molex KK.156" Series	
1_1	1 Ea.			Heatsink for TO-220 Package	ckage	_ Thermalloy #6072TB	
1.	2 Ea.			Rivet		Keystone, USM #SE46	
1.	1 Ea.			d, NEMA Grade	CEM-1, .062"		
11				Bare Copper Circuit	12.2 Sq. in.,		
					-		
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1							
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4;							
	R. REFERENCE M. MAKE IN HOUSE	*Detailed drawings and specif components remain to be complete	and s	ications on these	PL 2609-9993	993	
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				cario				
	Component	List,	* Specifications and So	Sources,	(continued)	REV.	SHEET 1 OF	F 6
O W	OTY/DASH	UNIT	IDENTIFYING NO.	KEY	NOMENCLATURE	OR DESCRIPTION	SUGGESTED SOURCE	0/0
1		2 Ea.			R1, 5 - Resistor, Carb	Carbon Film,	Airco, R-Ohm, ICC	
					Ohm, 5%, 14W			
2		1 Ea.		+	R2 - Resistor, Carbon Film,	Film, 47 Ohm		
m		1 Ea.			R4 - Resistor, Carbon	Film, 300 Ohm		
		11						
4	-	2 Ea.			R7.8 - Resistor. Carbon	on Film, 3.3K		
					hm, 5%, 4M			
					-			
0	+	l ta.			R9 - Resistor, Carbon	F11m, 560 Ohm		
	+			+	601			
9		1 Ea.			- Resistor,	Carbon Film, 10K Ohm,		
+				+	5%, 4W			74
7		1 Ea.	-	+		Carbon Film.		
					5%, 4W			
8		3 Fa.			813, 14, 23 - Resistor.	r. Carbon Film		
					0 Ohm, 5%, 1			
6		1 Fa.			R16 - Resistor Carbon	n Film 470 Ohm	Airco. R-Ohm. ICC	
		3			%, 4W			
EY:	R*REFERENCE	ENCE	*Detailed draw	and s	specifications on these	PL 2609-9993	1993	
	BUY	Brauy	vill be incorpora	into t	C	1		. 21

	GTE	GTE Sylvania/Mattel Agreement Exhibit C - Mattel Specification	cation	Page CI/ Of Z/ Pages	AN TITLE	2609-9519 Logic Board Assembly	
•	Component List, * S	Specifications and So	Sources,	(continued)	REV.	SHEET 2 OF	9
2	OTY/DASH UNIT	IDENTIFYING NO.	REY	-	SCRIPTION	RCE	C/C
0	1 Ea.			R17 -	Film, 2.2K	Airco, R-Ohm, ICC	
T			+	Ohm, 5%, 14W		<	
-	1 Ea.			Resistor, Carbon	Film, 200K		
T			+	Uniii, 5%; 4w			
2	1 Ea.			R30 - Resistor, Carbon 5%. %W	Film, 150 Ohm		
8	3 Eà.			R3, 6, 15 - Resistor, C	Carbon Film		
			+	TBD, 5%, 34W			-
4	3 Ea.		#	20, 2	, Carbon Film		
				15U, 5%, 4W		-	
19	3 Ea.			R22, 26, 27 - Resistor,	, Carbon Film	Airco, R-Ohm, ICC	
T			+	600			
10	3 Ea.			R24,25,28 - Potentiometer,	tioneter, Carbon,	Piher PT 15YD, Stackpole,	
				ount, .65" Dia.	Construc		
	1 Ea.			1 -1 -1	Carbon, TBD,	Piher PT 15YD, Stackpole,	
				20%, 4W @ 55°C, 270° Rc Mount, .65" Dia., Open	2700 Rotation, P/C Open Construction	CTS U201	
Α	R.REFERENCE M. MAKE IN HOUSE	iled drawits remain	ngs and specific	by Mattel and	PL 2609-9993	1993	
	G* CONSIGNED	corporat	into this 3. Design	libit in accord-	) V20	SUPERT 17 OF	21

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		Exh	GIE Sylvania/Mattel Agreement Exhibit C - Mattel Specification	catic		TITLE	Logic Board Assembly	
1.)	Component	List,	* Specifications and Sou	Sources	, (continued)	REV.	SHEET 3 OF	9
E	OTY/DASH	UNIT	IDENTIFYING NO.	REK	NOMENCLATURE OR DESCRIPTION	SCRIPTION	SUGGESTED SOURCE	0/0
18		Ea.			C1 - Ceramic Cap., 20pF, NPO, Radial	, 5%, 15V,	Centralab Type 2001, Erie Type 801, Dilectron, Murata, KCK	
19	20	Ea.			C4-22, 24 - Ceramic Cap., 15V, Z5U, Radial	., 0.1uF, 20%	Centralab Type 20DU, Erie Transcap, Dilectron Type RT, Murata, KCK	
02		Ea.			C25 - Ceramic Cap., 100pF, NPO, Radial	pF, 5%, 15V	Centralab-Type 200T, Erie Type 841, Dilectron, Murata KCK	
21	2	Ea.	-		C3, 26 - Aluminum Cap., -10 +100%, 15V, Axial	luF,	United Chemi-Con 16TAL1, Illinois Capacitor, Elna, Nichicon	
22	8	Ea.			C27,28,30 - Solid Tantalum 10uF, 20%, 35V, Radial	lum Cap.,	Sprague 199D, Kemet T392D, Elna, ITT, NEC	
23		Ea.			C31 - Ceramic Cap., .01uF, Z5U, Radial	uF, 20%, 15V,	Centralab Type 2000, Erie Transcap, Dilectron Type RT, Murata, KCK	
24	1 2	Ea.			01 - Rectifier, IN4001, Q1,2 - 2N3906, PNP Small	1 Amp, 50V 1 Transistor	GI, ITT, Fairchild Fairchild, National, ITT, NPC,	
							NEC, Motorola, T.I.	
EY:	R*REFERENCE M* MAKE IN HOUSE B* BUY C* CONSIGNED	NCE I HOUSE	*Detailed drawings components remain to will be incorporated ance with paragraph 1	s and spec be comple into this	ifications on these ted by Mattel and Exhibit in accord-	PL 2609-9993	993 Eurer 18 or	21

		•		Exh	GTE Sylvania/Mattel Agreement Exhibit C - Mattel Specification	nent	Page	CI9 of 27 Pages AN	2609-9519 Logic Board Assembly	
					alloade language	ario				
1.	Co	Component	ent	List,	* Specifications and Sou	Sources,	1	(continued) REV.	SHEET 4 OF	9
EM	5	OTY/DASH	SH	TINO	IDENTIFYING NO.	BEK	KEA	NOMENCLATURE OR DESCRIPTION	SUGGESTED SOURCE	0/0
56			1	Ea.			03	- 2N3904, NPN Small Signal Trans.	ns. Fairchild, National, ITT, NPC,	
			-			+	-		NEC, Motorola, T.I.	
27	+	+	-	Ea.		+	C 101	1 - CP1610, uP	[9]	
28		+	1	Ea.			C IC2	2 - RA-3-9600, RAM	19	
59		+	-	Ea.		+	201 2	C3 - R0-3-9504, 2KX10 ROM	19	
30.	+		1	Ea.		1	C IC	C4 - AY-3-9600, STIC	. 19	
3.1	+	+	-	- L		+	J J	CF - BO-3-0503 16K BOM	19	
	+	+	1	ra.		+	1	- NO-3-3303, 10N		
32	1	1	-	Ea.		1	201	C6 - AY-3-8910, PSG	GI	
33	+	+	+	E L		+	J	FG - BO-3-9502 2KX10 BOM	75	
2	1	+	1	La.		+	1	10-3-33069		
34	1	-	-	Ea.		+	201	C10 - AY-3-8915, Color	61	
35	+	+	m	Ea.		+	107	C7, 8, 12 - 256x8 RAM	EMM-Semi 3539 UCP	
98			-	Ea.			IC	C11 - 7406, Hex Inverter	Fairchild, National, TI,	
		-							Signetics, NEC	
1	+		-	Ea.		+	OI	C13 - 74LS08, Quad and Gate	Fairchild, National, TI,	
1		+	-						Signetics, Motorola	
	-	-				+	-			
E .	E Z	R*REFERENCE	ERE	NCE	*Detailed drawings	nd s	and specific complete	PL	2609-9993	
	ë.ü	BUY	Sign	B* BUY	will be incorporated ance with paragraph 1	to t	Docton C	Exhibit in accord-	Surery 19	21

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		,		Exhi	Exhibit C - Mattel Specification	atio		-	TITLE	Logic Board Assembly	
-	00	Component	ent	List,	* Specifications and Sou	Sources		(continued)	REV.	SHEET 5	0F 6
Σ	5	QTY/DASH	SH	UNIT	IDENTIFYING NO.	BEK	KEL	NOMENCLATURE OR DESCRIPTION	CRIPTION	SUGGESTED SOURCE	0/0
ω			2	Ea.				IC14,15 - 74LS126, Quad I	Quad Buffer	Fairchild, National, II, Signetics, Motorola	
6			-	Ea.			×	TL - Crystal, 3.579545	MHZ, ±.01%	1 1 5 1	
	+	+	+			1				Reeves-Hoffman, Q-Matic	
0			-	Ea.			0	C2 - Trimmer Cap., 5.1-50pF .35" Dia., P/C Mount	.0pF,	Matsushita #ECY-1ZW50X321H Sprague-Goodman #6KD50000	Н.
-			-	Fà.			2	REX - Modulator		Astec #IIM1285	
1		H	-				-				
2			1	Ea.			S	31 - SPST Switch		CTS Dwg. C1690A	
m	+	-	-	Ea.		+	S	S2 - SPDT Slide Switch,'	. P/C Mount	UID #SL-012-SD-T0-P-B1-EK-CE	K-CE
				221						art standform graft for professor and service descriptions and descriptions and described to the control of the	
4	+	+	-	Ea.		+	0	Connector, P/C Card Edge,	, 44 Pin	Methode	
5	+	++	9	Ea.			L	errite Bead, .20" ID,	.38" 0D, 19"L	1 1	
9			9	Ea.			+	IC Socket, 40 Pin DIP		Ferronics #11-220K 1 T.I. #C8540-01, Augat, Ca	Cambion
7			-	Ea.				U		Augat.	Cambion
60			-	67				C Socket 28		#C8528-01. Augat	Cambion
	1	+	1			1				i andru i i	
6	+	+	-	Ea.		1		Connector, 6 Pin - To P/S	S Board	Amp #640428-6 Molex KK.156" Series	
9000											
E Y :		R. REFERENCE	ERE	NCE	*Detailed drawings	and specific be completed	peci	ations c by Matte	2609-9993	993	
	60	BUY	SIGR	B* BUY	will be incorporated ance with paragraph 1	into this 13, Design	ign	Changes.	- V38	SHEET 20	OF 21

21	Aller 21 Am		Dev.	is Exhibit in accord-	Doc to	nto		B. BUY	101	SUY	B: E	
		1993	PL 2609-9993	specifications on these	Sp	and e co	*Detailed drawings	NCE	RE	R*REFERENCE	R. R.	KEY:
		6									-	
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									1	+	+	
					1						-	1
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										+	-	
						L		1	1	-	+	
					1	1			1	+	+	1
						1			1	-	+	-
				ted Copper Circu						-	+	1
	,		So	Ider Mask One		1			1.	+	+	1
			48			1			4	+	+	1
			CEM-1062"	P/C Board, NEMA Grade CEM-1				Fa.	-	-	+	51.
	e Thermatics	Teledyne										
	Electric Cable,	American	Stranded	Wire, 22 AWG, 7/30 St				Ft.	1.5			50
0/0	SUGGESTED SOURCE	SUGG	DESCRIPTION	NOMENCLATURE OR DESCRIPTION	KEA	ABR	IDENTIFYING NO.	UNIT	=_	OTY/DASH	5	EM
9	SHEET 6 OF		REV.	(continued)	. 55	Sources,	Specifications and	List, *		Component	Con	1.)
					lon	cat	bit C - Mattel Specific	EXILI				
	Board Assembly	Logic Bo	TITLE		14.	emer	GTE Sylvania/Mattel Agreement	61				
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Howard L. Cohen
Director of Purchasing

November 28, 1978

GTE Sylvania
Electronic Components Group
P.O. Box 360
Muncy, PA 17756
Attn: John Robertson

Dear John,

In accordance with the terms of the Contract, please supply a cost effect for the Video Console per the changes detailed in Revision C of the Bill of Materials dated 11/14/78.

These changes can be summarized as follows:

## Logic Board

Changed values of 25 parts
Deleted 4 Trimpots
Added 4 Diodes
Added 3 Inductors
Added 4 I.C.'s
Added 3 Zener Diode's

## Power Supply Board

Changed value of 1 part Added 4 Inductors Added 6 Capacitors

These parts should not require any obsolescence of parts since procurement has not begun to date. Your immediate reply would be appreciated.

Sincerely yours,

Howard L. Cohen

cc: Ed Krakauer

Mattel Toys, a division of Mattel, Inc. General Offices, 5150 Rosecrans Avenue, Hawthorne, California 90250 • Telephone (213) 644-0411 • Telex: 67-4961